

End-to-End Data Processing Ships - to - Archive

Chris Fox
Acting Director, NGDC



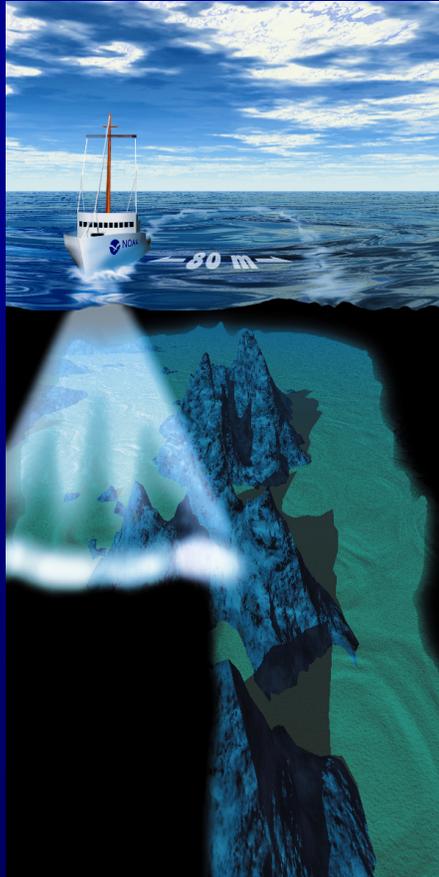
End-to-End Data Processing

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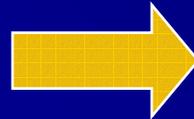
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Data Collection

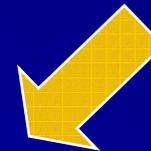


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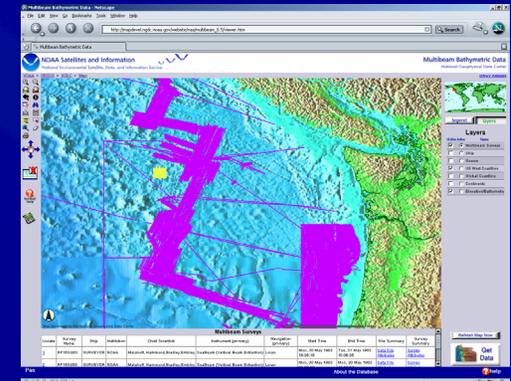
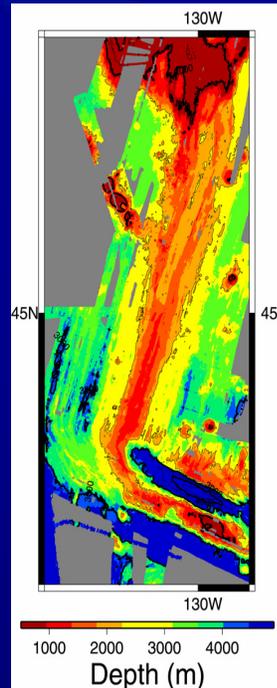
Data Processing

Quality Assurance
Data Processing
Calibration & Corrections
Structuring & Formatting



Data Stewardship

Archive
Distribution
Research
Products



NOAA Administrative Order 212-15

December 22, 2003

Management of Environmental and Geospatial Data and Information

This Order establishes a National Oceanic and Atmospheric Administration (NOAA) policy for acquiring, integrating, managing, disseminating, and archiving environmental and geospatial data and information obtained from worldwide sources to support NOAA's mission.

<http://www.rdc.noaa.gov/%7E nao/212-15.html>



NOAA Environmental & Geospatial Data Will Be Maintained in Accordance with:

1. Applicable Office of Management and Budget (OMB) regulations, including A-16 (Coordination of Geographic Information and Spatial Data Activities) and A-130 (Management of Federal Information Resources)
2. Federal Geographic Data Committee (FGDC) approved data standards;
3. Federal law related to records management within federal agencies
 - Sections 3101-3107 of Title 44 of the United States Code (Records Management By Federal Agencies)
 - The Paperwork Reduction Act of 1995; and
 - National Archives & Records Administration (NARA) Records Management Regulations

NOAA Data Management Planning Will Include End-to-End Data Stewardship.



NOAA Line Office Responsibilities:

Determine, in accordance with applicable law, regulations, and policy; where, when, and/or how its environmental and geospatial data and information are archived and how they are made available. Data are considered, and are to be treated as, corporate assets.

NOAA National Data Centers Responsibilities:

- a. Maintain an environmental data and information metadata catalog;
- b. Protect and preserve their environmental data and information holdings;
- c. Make their holdings accessible to users under uniform guidelines.



NAO is largely driven by: Public Law 106-554; H.R. 5658. Section 515

Office of Management and Budget (OMB) "policy and procedural guidance to Federal agencies **for ensuring and maximizing the quality, objectivity, utility, and integrity of information (including statistical information) disseminated by Federal agencies.**"

<http://www.noaanews.noaa.gov/stories/feb2202-fedreg.htm>



Public Law 106-554; H.R. 5658. Section 515 OMB Data Quality Guidelines
(cont.)

Quality, Utility, Objectivity, and Integrity

Data and Information "Quality" includes:

Utility – Usefulness of the information to the intended users.

Objectivity – Presentation of information in an accurate, clear, complete, and unbiased manner.

Integrity – Protection of information from unauthorized access or revision, to ensuring no compromise through corruption or falsification.

Agency Reporting Requirements

Establishment of Agency Information Quality Guidelines (Oct 1, 2002), including a description of mechanisms allowing affected persons to seek and obtain, where appropriate, correction of disseminated information that does not comply with the OMB and agency guidelines.

Annual reports to OMB (beginning Jan 1, 2004) providing information (quantitative and qualitative, as appropriate) on the number, nature, and resolution of complaints received by the agency regarding its perceived or confirmed failure to comply with OMB and agency guidelines.



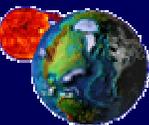
Program managers' responsibilities under NAO 212-15

- Section 4. Responsibilities

- .01 The NOAA CIO is responsible for implementing and managing this Order

- .02 Each **NOAA Program Manager** shall:

- a. Support NOAA's mission for stewardship of the Nation's environmental and geospatial data and information through the process of **acquiring, archiving, integrating, and disseminating** such data and information.



FY07 PLANNING



FY07 PLANNING

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Steps:	Description:	Dates:	Lead/Assist:
Step 1	Consolidate & Analyze Info	Mar 1-Apr 30	GT & G-W, Councils/ PM, LO & SO, Councils, PPI
Step 2	Revise NOAA Program Structure	Apr 5-May 31	PPI/ GT, PM, LO & SO, Councils
Step 3	REVISE NOAA Strategic Plan	May 1-Aug 31	PPI/ GT, PM, LO & SO, Councils
Step 4	Goal Assessments	Jun 1-Jul 23	PPI/GT & G-W, PM, Councils
Step 4A	Prepare PBAs	Jun 1-Jul 23	PM/GT, G-W, PM, LO & SO, Councils, PPI
Step 4B	Conduct Goal Assessments	Jun 1-Jul 23	GT & G-W/ PPI, Councils
Step 5	Prepare NOAA Annual Guidance Memorandum	Jul 26-Aug 31	PPI, Goal Teams/ LO & SO, Councils, PA&E

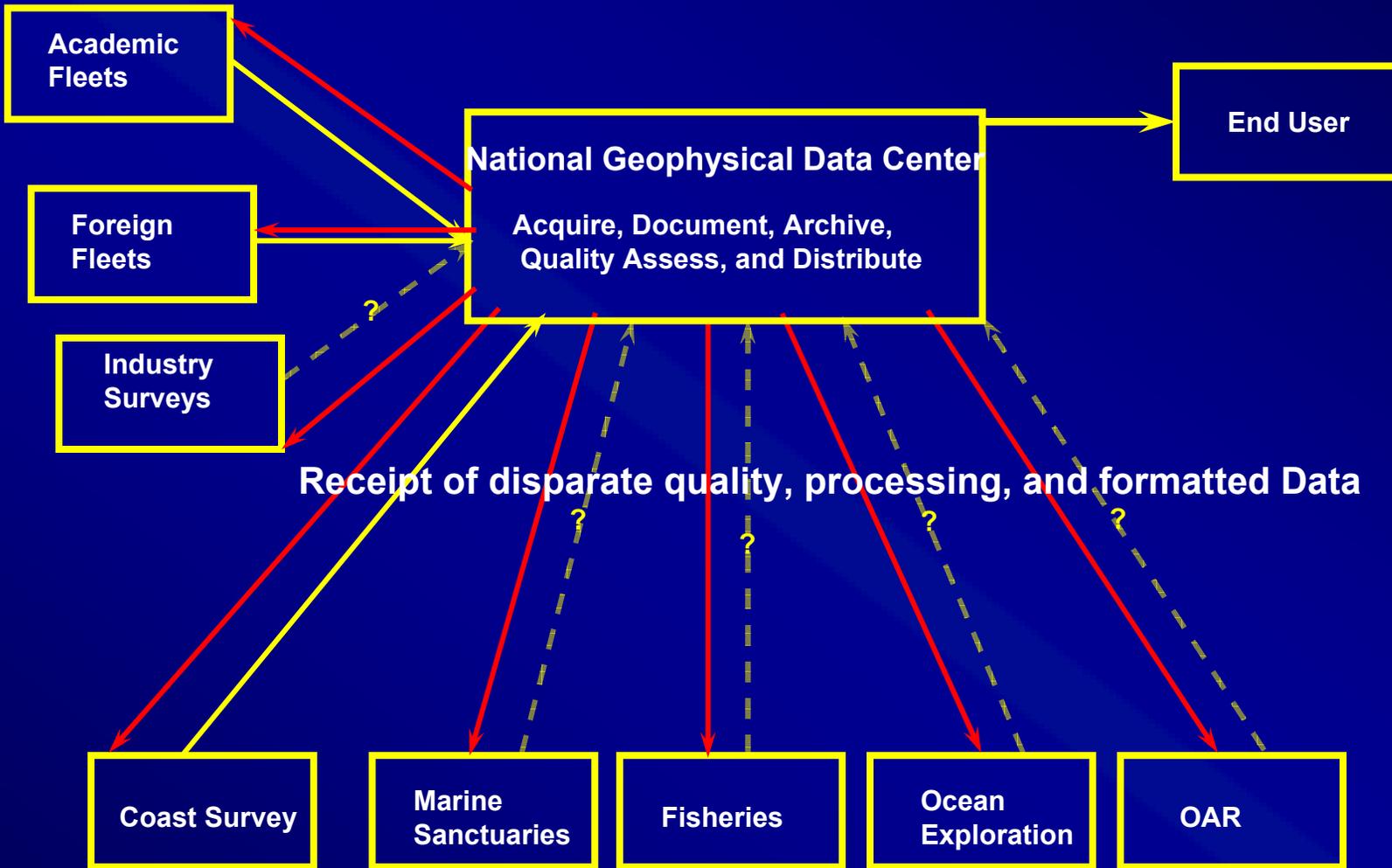


Present Model of Data Flow and Processing

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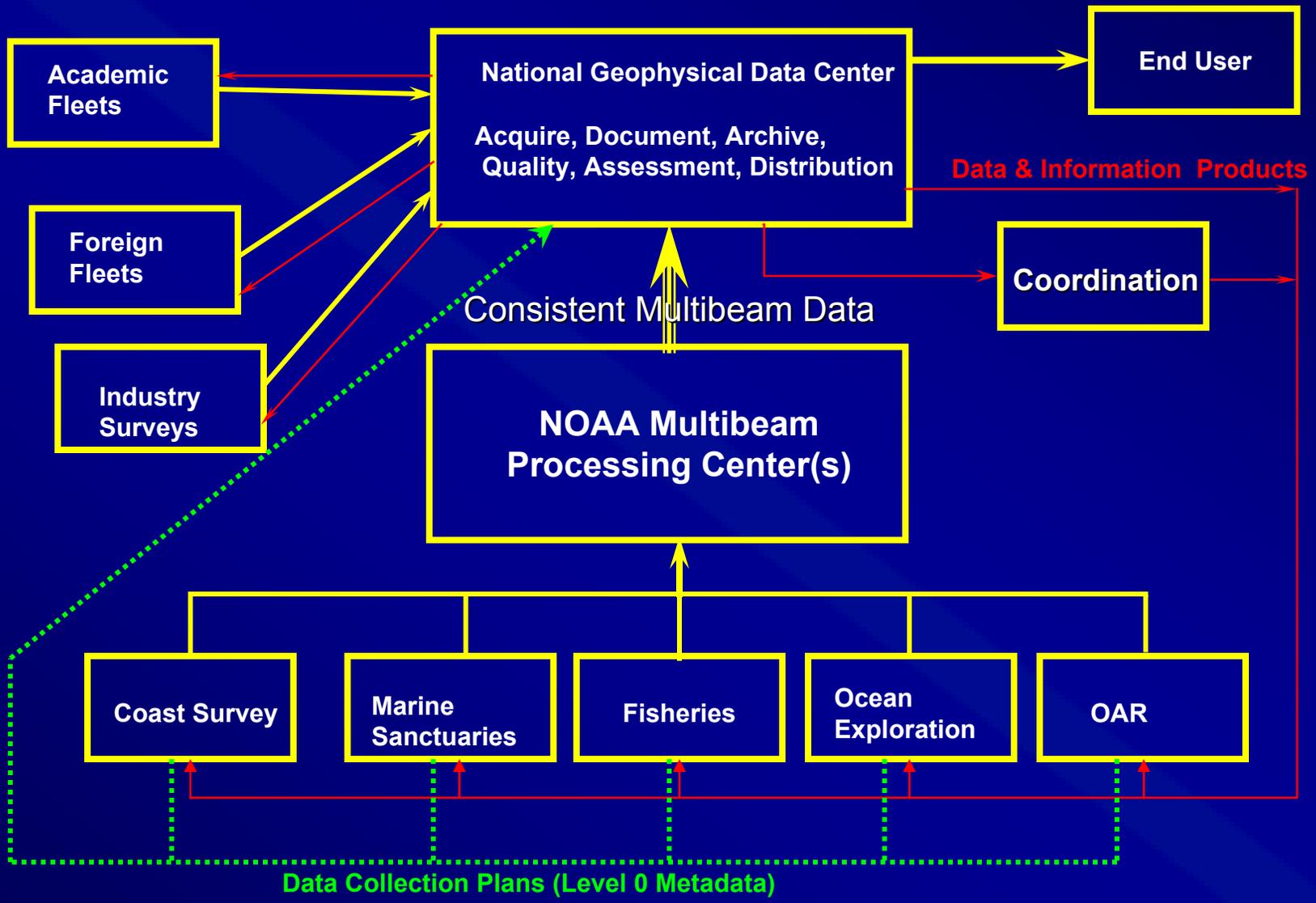


Future Model of Data Flow and Processing

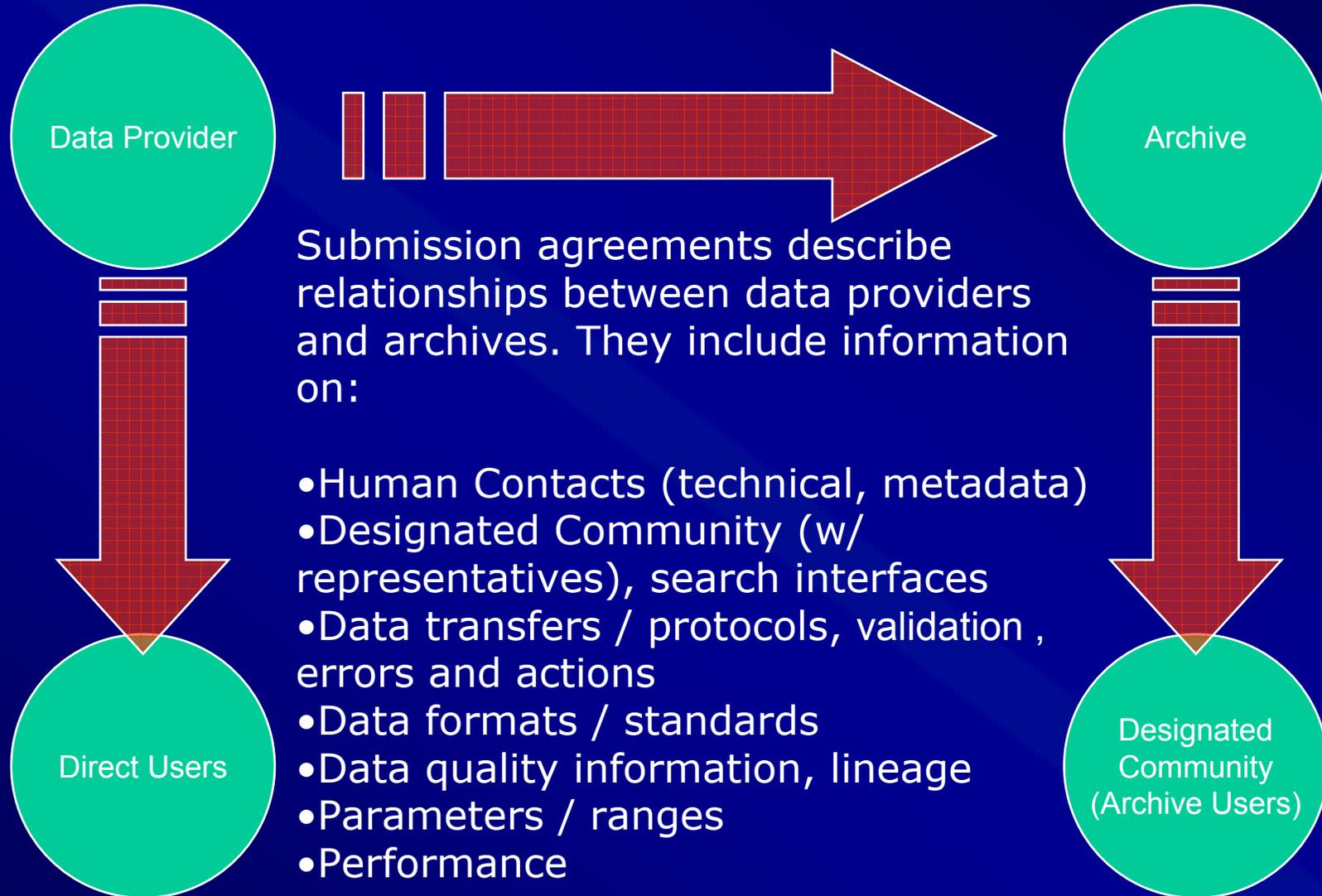
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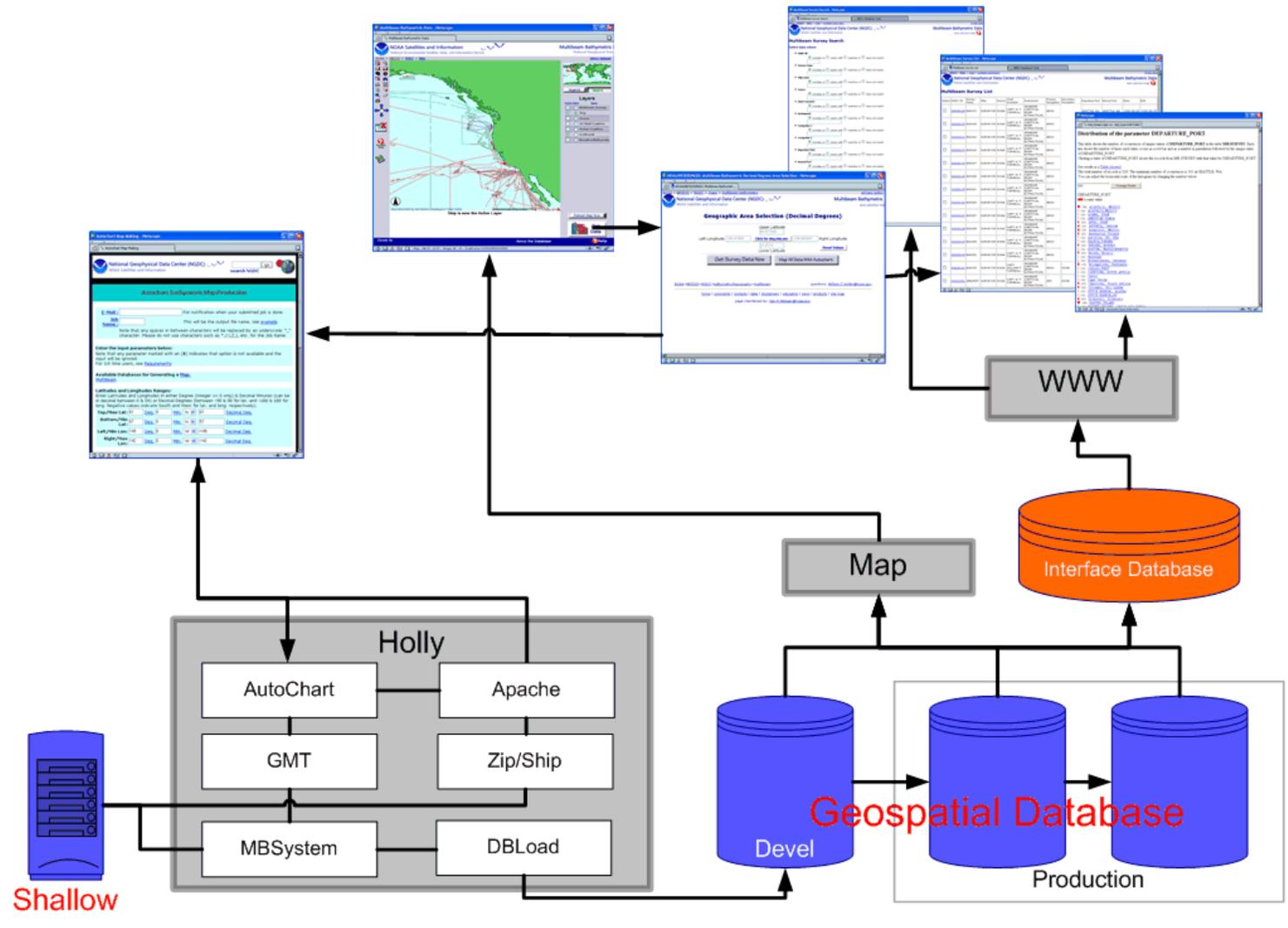
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Submission Agreements

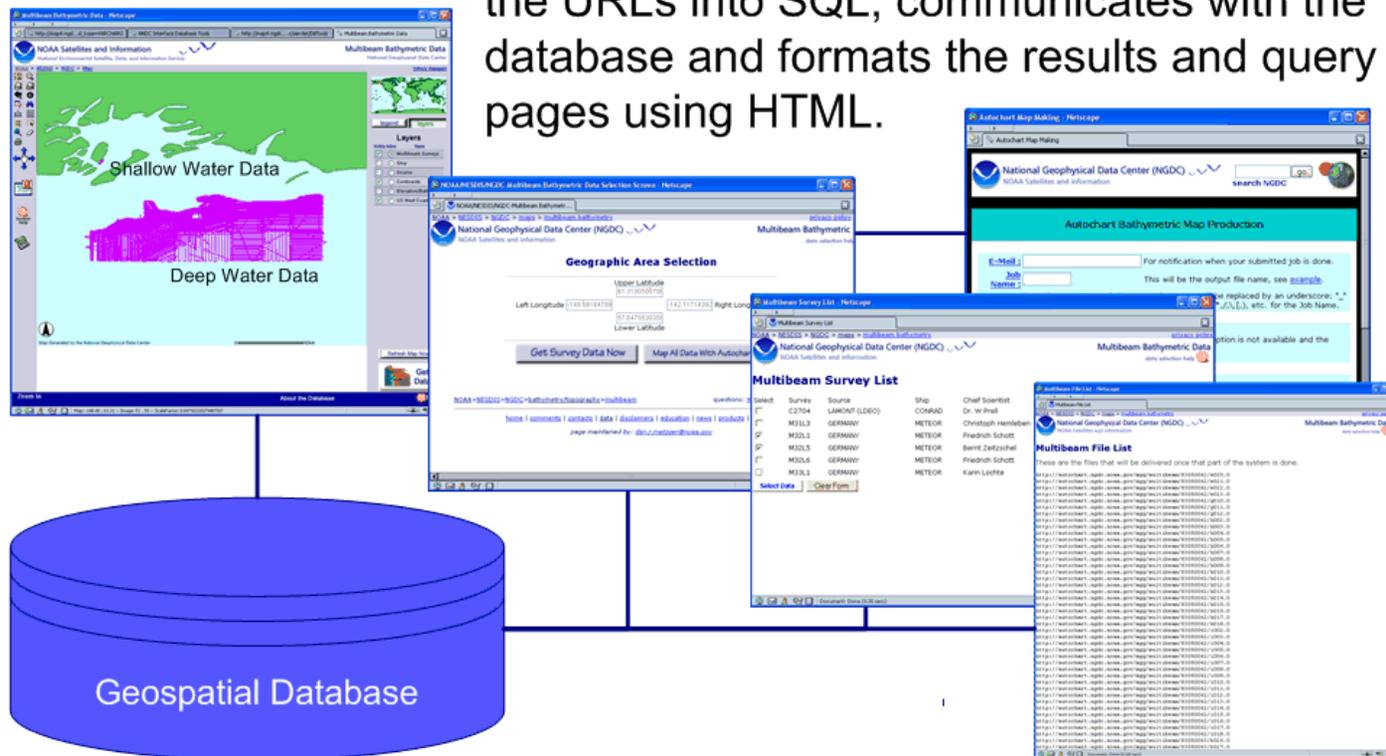


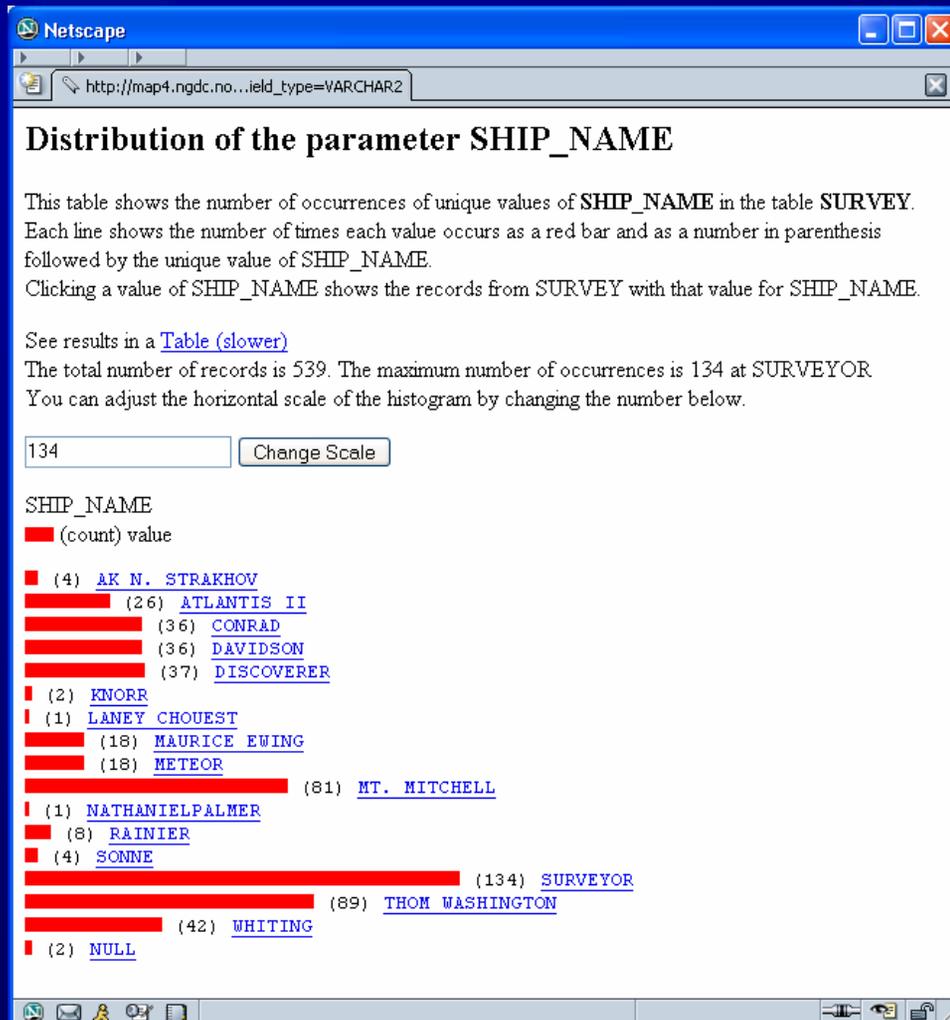
Multibeam Architecture 2/2004



Multibeam Data Access 2/2004:

The Multibeam Data Access System includes several linked pages:
 1) Region Selection, 2) Region Refinement, 3) Survey Selection, and
 4) File Selection. All of these pages use information from a
 geospatial database. The Interface Database translates
 the URLs into SQL, communicates with the
 database and formats the results and query
 pages using HTML.





Consistent, high-quality metadata is critical for robust data access tools and systems. NGDC has developed web-based tools for examining and improving consistency of our multibeam metadata. These tools are available to data managers here as well as to data providers over the web.

The next step is migrating the metadata into FGDC & ISO compliant forms.



Level-1 Metadata and Coordination of Collection

By acquiring and collating planned use of Multibeam resources, we can begin to overcome the duplication of effort and replace it with an integrated program of NOAA multibeam operations *vice* individual office and center operations. These will have to be guided by flexible standards of collection that adapt to the constellation of requirements applicable to the particular environment in which the data are planned to be collected.



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